PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCH	NG AUTH	IORITY		
To: G.E. EHRLICH (1995) LTD G.E. EHRLICH (1995) LTD 11 MENACHEM JBEGIN S	TREET		WR	PCT ITTEN OPINION OF THE
RAMATGAN, ISRAEL 52	521	-	INTERNATI	ONAL SEARCHING AUTHORITY
				(PCT Rule 43bis.1)
	<u> </u>		Date of mailing (day/month/year)	16 NOV 2004
Applicant's or agent's file ref	ference		FOR FURTHER	ACTION See paragraph 2 below
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)
PCT/IL04/00046		15 January 2004 (15.01	.2004)	16 January 2003 (16.01.2003)
International Patent Classifica	ation (IPC)			
IPC(7): A61B 5/02 and US C	Cl.: 600/486	5, 485, 585		·
Applicant	-			· ·
				,
1. This opinion contains inc	dications re	lating to the following iten	ns:	
	Basis of the	e opinion		
	Priority			·
Box No. III	Non-establ	ishment of opinion with re	gard to novelty, inve	entive step and industrial applicability
Box No. IV	Lack of un	ity of invention		
		statement under Rule 43bis y; citations and explanation		to novelty, inventive step or industrial tatement
Box No. VI	Certain doc	cuments cited		
Box No. VII	Certain def	fects in the international ap	pplication	·
Box No. VIII	Certain obs	servations on the internation	onal application	
2. FURTHER ACTION				
International Preliminar	y Examinir	ng Authority ("IPEA") e	xcept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) dered.
IPEA a written reply to mailing of Form PCT/IS	ogether, wh A/220 or b	nere appropriate, with an efore the expiration of 22	endments, before tl	PEA, the applicant is invited to submit to the ne expiration of 3 months from the date of ority date, whichever expires later.
For further options, see	Form PCT/	/ISA/220.		
3. For further details, see n	otes to For	m PCT/ISA/220.	\mathcal{J}	Λ 7
Name and mailing address of		IS	Authorized office	
Mail Stop PCT, Attn: Commissioner for Pat			Navin Namithit	nadha)
P.O. Box 1450 Alexandria, Virginia	22313-1450		Telephone No. (703) 308-1148

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INI

International application No. 0046

FERNATIONAL SEARCHING AUTHORITY	PCT/IL04/00
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Box No.	Basis of this opinion
1. With regit was fi	gard to the language, this opinion has been established on the basis of the international application in the language in which iled, unless otherwise indicated under this item.
T U	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of:
a. t	ype of material
	a sequence listing
[table(s) related to the sequence listing
b. f	ormat of material
[in written format
[in computer readable form
c. t	ime of filing/furnishing
	contained in international application as filed.
[filed together with the international application in computer readable form.
ſ	furnished subsequently to this Authority for the purposes of search.
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f	in addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addition	nal comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL04/00046

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

2. Citations and explanations:

Claims 1, 2 and 4-6 lack novelty under PCT Article 33(2) as being anticipated by EINZIG '153.

In regards to claims 1 and 4, Einzig teaches a balloon catheter for detecting obstruction of blood flow within a blood vessel (see fig. 24 and col. 23, lines 25-35), comprising:

- a. a controllably inflatable balloon 128 (see fig. 12 and col. 18, line61);
- b. a first pressure sensor (optical fiber 118 terminating at sensitive zone 126 proximal of the balloon);
- c. a second pressure sensor (optical fiber 116 terminating at sensitive zone 122 distal of the balloon).

The method of claim 4 contains the same subject matter as claim 1 and is therefore rejected for the reason above.

As to claim 2, Einzig teaches the first and second pressure sensors report pressure measurements to a data receiver 326 by fiber optic wire connections.

As to claim 5, Einzig teaches monitoring two pressures, an abrubt narrowing in the vessel of finite length (stenosis) 410 is detected by observing a difference in the two pressures (see col. 23, lines 31-35).

As to claim 6, Einzig teaches determining the presence and location of stensois by using pressure sensors (see col. 6, line 41-42).

Claim 3 lacks an inventive step under PCT Article 33(3) as being obvious over EINZIG '153 in view of RINDNER '588.

As to claim 3, Einzig does no teach wireless pressure sensors. However, it is well known in the art at the time the invention was made to transmit pressure signals wirelessly. For example, Rindner teaches both wired and wireless means for transmitting pressure signals from the distal end of a catheter (see col. 2, lines 17-20).

Claims 8-12 lack an inventive step under PCT Article 33(3) as being obvious over EINZIG '153 in view of VAN WORMER '837.

As to claims 8-12, Emzig does not disclose determining the position of the balloon by an imaging modality such as an ultrasound system and using a radio-opaque marker. However, this is well known in the art at the time the invention was made. Van Wormer teaches determining a position of a balloon 10 on a catheter by using ultrasonic scanning of radio opaque markers 23, 24 (see fig. 2, col. 3, lines 52-56, and col. 4, lines 17-19).

Please See Continuation Sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL04/00046

Box No. VII Certain defects in the international applic	ation	
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Claim 13 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: the ends with two periods.								in the form o		
	the claim	ontents thereof:	form or conter	ect(s) in the fo	following de	containing th	le 66.2(a)(iii) a	under PCT Rule	objected to un o periods.	im 13 is o Is with two
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Form PCT/ISA/237 (Box No. VII) (January 2004)